

Inspired by Your Data Center

User Manual

WEBUI & SNMP - B series iATS



Designed and manufactured by Austin Hughes FC CE REACH

Legal Information

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Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice. We are not liable for any injury or loss that results from the use of this equipment.

Safety Instructions

Please read all of these instructions carefully before you use the device. Save this manual for future reference.

- Unplug equipment before cleaning. Don't use liquid or spray detergent; use a moist cloth.
- Keep equipment away from excessive humidity and heat. Preferably, keep it in an air-conditioned environment with temperatures not exceeding 40° Celsius (104° Fahrenheit).
- When installing, place the equipment on a sturdy, level surface to prevent it from accidentally falling and causing damage to other equipment or injury to persons nearby.
- When the equipment is in an open position, do not cover, block or in any way obstruct the gap between it and the power supply. Proper air convection is necessary to keep it from overheating.
- Arrange the equipment's power cord in such a way that others won't trip or fall over it.
- If you are using a power cord that didn't ship with the equipment, ensure that it is rated for the voltage and current labelled on the equipment's electrical ratings label. The voltage rating on the cord should be higher than the one listed on the equipment's ratings label.
- Observe all precautions and warnings attached to the equipment.
- If you don't intend on using the equipment for a long time, disconnect it from the power outlet to prevent being dam aged by transient over-voltage.
- Keep all liquids away from the equipment to minimize the risk of accidental spillage. Liquid spilled on to the power supply or on other hardware may cause damage, fire or electrical shock.
- Only qualified service personnel should open the chassis. Opening it yourself could damage the equipment and invalidate its warranty.
- If any part of the equipment becomes damaged or stops functioning, have it checked by qualified service personnel.

What the warranty does not cover

- Any product, on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:
 - □ Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
 - $\hfill\square$ Repair or attempted repair by anyone not authorized by us.
 - $\hfill\square$ Any damage of the product due to shipment.
 - $\hfill\square$ Removal or installation of the product.
 - $\hfill\square$ Causes external to the product, such as electric power fluctuation or failure.
 - \Box Use of supplies or parts not meeting our specifications.
 - □ Normal wear and tear.
 - \Box Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.

Regulatory Notices Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in business, industrial and commercial environments.

Any changes or modifications made to this equipment may void the user's authority to operate this equipment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-position or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

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< Part 1 > Hardware

< 1.1 > Package Content

Unpacking

The equipment comes with the standard parts shown in package content. Check and make sure they are included and in good condition. If anything is missing, or damaged, contact the supplier immediately.



- B series iATS unit x 1
- Mounting Bracket (set of 3) x 1
- M3.2*4.5 mm screw x 12

< 1.2 > Key Features



1	3-digit LED
2	IP Port
3	Input Preference Switch
4	Power LED - primary input
5	Power LED - secondary input
6	Circuit Breaker
7	Primary Input attached with 3M cord & inlet plug
8	Secondary Input attached with 3M cord & inlet plug
9	Outlets

< 1.3 > Hardware Specification

230V

Flectrical	Nominal input voltage	200 ~ 230V					
	Acceptable input voltage	±10% nominal					
	Input frequency	50 / 60Hz					
	Inlet plug & cord	2 x C14 / C20 / EN 60309 / BS1363 / CEE7 plug w/ 3M cord					
	Outlet connectors	C13 / C13+C19 / C19 / IEC309 / UK / Schuko / FR					
	Local meter	3-digit RMS current meter					
	Overload protection	1 x 10-amp circuit breaker for C14 inlet 1 x 13-amp circuit breaker for BS1363 inlet 1 x 16-amp circuit breaker for C20 / EN16 60309 / CEE7 inlet 1 x 20-amp circuit breaker for Open-end 2 x 16-amp circuit breaker for EN32 60309 inlet					
	Input source transfer time	10ms typical					
	Electrical endurance	1 x 10⁵ operations					
	Power consumption	Approx. 20W					
Dhysical	Product dimensions(1U)	442 x 300 x 43.5 mm (W x D x H)					
Filysical	Packing dimensions(1U)	540 x 540 x 110 mm (W x D x H)					
	Net weight	4.7 kg / 10.3 lb					
	Gross weight	5.2 kg / 11.4 lb					
	Product dimensions (2U)	442 x 270 x 87.5 mm (W x D x H)					
	Packing dimensions(2U)	540 x 540 x 150 mm (W x D x H)					
	Net weight	6.6 kg / 14.5 lb					
	Gross weight	7.1 kg / 15.6 lb					
	Chassis color / materials	Dark / Steel					
- · · · ·	Operating temperature	-5 to 60°C degree (23 to 140°F)					
Environmental	Storage temperature	-25 to 65°C degree (13 to 149°F)					
	Operating humidity	8~95%, non-condensing					
	Storage humidity	8~95%, non-condensing					
	EMC	FCC & CE / EMC					
Compliance	Safety	CE/LVD, CB, UKCA, UL-US. UL-CA					
	Environment	RoHS, Reach & WEEE					

< 1.3 > Hardware Specification

208V

Flectrical	Nominal input voltage	208V					
	Acceptable input voltage	±10% nominal					
	Input frequency	50 / 60Hz					
	Inlet plug & cord	2 x L620 / L630 plug w/ 3M cord					
	Outlet connectors	C13 / C13+C19 / C19 / IEC309					
	Local meter	3-digit RMS current meter					
	Overload protection	1 x 20-amp circuit breaker for L6-20P inlet 1 x 30-amp circuit breaker for L6-30P inlet					
	Input source transfer time	10ms typical					
	Electrical endurance	1 x 10⁵ operations					
	Power consumption	Approx. 20W					
	Product dimensions(1U)	442 x 300 x 43.5 mm (W x D x H)					
Physical	Packing dimensions(1U)	540 x 540 x 110 mm (W x D x H)					
	Net weight	4.7 kg / 10.3 lb					
	Gross weight	5.2 kg / 11.4 lb					
	Product dimensions(2U)	442 x 270 x 87.5 mm (W x D x H)					
	Packing dimensions(2U)	540 x 540 x 150 mm (W x D x H)					
	Net weight	6.6 kg / 14.5 lb					
	Gross weight	7.1 kg / 15.6 lb					
	Chassis color / materials	Dark / Steel					
	Operating temperature	-5 to 60°C degree (23 to 140°F)					
Environmental	Storage temperature	-25 to 65°C degree(13 to 149°F)					
	Operating humidity	8~95%, non-condensing					
	Storage humidity	8~95%, non-condensing					
Compliance	EMC	FCC & CE / EMC					
	Safety	CE/LVD, CB, UKCA, UL-US, UL-CA					
	Environment	RoHS, Reach & WEEE					

< 1.3 > Hardware Specification

110V

Flectrical	Nominal input voltage	110V				
	Acceptable input voltage	±10% nominal				
	Input frequency	50 / 60Hz				
	Inlet plug & cord	2 x 515 / L520 / L530 plug w/ 3M cord				
	Outlet connectors	NEMA 5-20R				
	Local meter	3-digit RMS current meter				
	Overload protection	1 x 15-amp circuit breaker for NEMA 5-15P inlet 1 x 20-amp circuit breaker for NEMA L5-20P inlet 1 x 30-amp circuit breaker for NEMA L5-30P inlet				
	Input source transfer time	10ms typical				
	Electrical endurance	1 x 10⁵ operations				
	Power consumption	Approx. 20W				
Physical	Product dimensions(1U)	442 x 300 x 43.5 mm (W x D x H)				
FilySical	Packing dimensions(1U)	540 x 540 x 110 mm (W x D x H)				
	Net weight	4.7 kg / 10.3 lb				
	Gross weight	5.2 kg / 11.4 lb				
	Product dimensions(2U)	442 x 270 x 87.5 mm (W x D x H)				
	Packing dimensions(2U)	540 x 540 x 150 mm (W x D x H)				
	Net weight	6.6 kg / 14.5 lb				
	Gross weight	7.1 kg / 15.6 lb				
	Chassis color / materials	Dark / Steel				
Environmontal	Operating temperature	-5 to 60°C degree (23 to 140°F)				
Linvironmentar	Storage temperature	-25 to 65°C degree (13 to 149°F)				
	Operating humidity	8~95%, non-condensing				
	Storage humidity	8~95%, non-condensing				
Compliance	EMC	FCC & CE / EMC				
	Safety	CE/LVD, CB, UKCA, UL-US, UL-CA				
	Environment	RoHS, Reach & WEEE				

< 1.4 > How to switch power input

1. By Manual

- Press the local input switch button on the front panel
- Set the input preference via WEBUI / SNMP remotely
- 2. By Auto
- Switch automatically when the preferred input source is powered off



Once ATS current loading is over the rated input current, input switching is not allowed either by local or remote. However, automatic switching is NOT affected.

< Part 2 > Initial Installation and Configuration

< 2.1 > Connecting the iATS to a Power Source

- 1. Verify that all circuit breakers on the iATS are set to ON. If not, turn them ON.
- 2. Connect each iATS to a power source with proper input ratings. See the silver label affixed to your iATS for detail information.

< 2.2 > Connecting the iATS to a computer

The iATS can be connected to a computer for configuration via WEBUI.

- 1. Connect one end of a standard network patch cable to the IP port on the iATS
- 2. Connect the other end of the cable to your computer's network port

< 2.3 > Connecting the iATS to your network

To remotely administer the iATS, you must connect the iATS to your local area network (LAN) via a wired network.

- Connect a standard network patch cable to the IP port on the iATS
- Connect the other end of the cable to your LAN

< 2.4 > Configuring the iATS

You can initially configure the iATS by connecting it to a computer, or to a TCP/IP network that supports DHCP.

- Configuration over a DHCP-enabled network :

i. Connect the iATS to a DHCP-enabled IPv4 network.

ii. Provide the Mac address of the iATS and Ask your network administrator to retrieve the DHCP-assigned IPv4 address iii. Launch a web browser to configure the iATS. See <3.3> First Time Login

- Configuration using a connected computer :

i. Connect the iATS to a computer. See < 2.2 > Connecting the iATS to a computer.

ii. An IP address 192.168.0.1 will automatically assigned to the iATS.

- iii. Configure the IP setting of the connected computer so that it is under the same network of the iATS.
- iv. Use the connected computer to configure the iATS via web interface.
- v. Launch the web browser on the computer, and type 192.168.0.1 to access the iATS.

< Part 3 > Using the Web Interface

< 3.1 > Supported Web Browser

- Microsoft Edge
- Internet Explorer 11
- Google Chrome 128 and later
- Firefox 128 and later

< 3.2 > B series iATS GUI Key feature

B series iATS comes with a FREE built-in GUI which allows remotely monitoring over IP.

Features				
Capacity	IP Dongle Group	1		
	ATS number	1		
	Concurrent User			
Features	Input Source Selection	~		
	Input Source Status Monitoring			
	Individual / multiple Outlet Switch ON / OFF			
	Outlet Level kWh & Amp Measurement			
	Energy Consumption (kWh) Monitoring	~		
	Apparent Power (kVA) Monitoring	~		
	Active Power (kW) Monitoring	~		
Power Factor Measurement		~		
	Voltage (Volt) Monitoring			
	Circuit Amp. Monitoring			
	Circuit Breaker Monitoring	~		
	Amp. Alarm / R. Alert / L. Alert Setting	~		

< 3.3 > First Time login

For the first time login, please use the default login name and password to login. (Default login name and password : 00000000).

Due to the security issue, you must change the login password for the first time login.

To login to the web interface :

1. Open a browser and type the IP address of ATS



- 2. If any security alert message appears, accept it.
- 3. The login screen displays. Input the login name and password. Then click " Login ".

Device	iATS
Login name	0000000
Password	•••••• •
	Login Cancel

4. The following screen displays and you must change the login password. Otherwise, you cannot login.

Device	iATS
A new password is req	uired to replace the default password.
New Password	
Confirm Password	
	Apply Cancel

5. Input the new password and confirm the new password and click "Apply".

Device	IATS
A new password is requ	ired to replace the default password.
New Password	
Confirm Password	
	Apply Cancel

< 3.3 > First time login

6. The iATS web interface similar to the following image displays.

evice	Model :	ATS	-H12UK-16A-B_E	EN	Input I	Rating :		16Amp, 250V	
ack Power	Name :	🗾 defa	default_ats_name			t :		16A max.	
Overview	Location :	Z defa	ault_ats_loc.		Firmw	are :		ATS_B01_20241025	
ystem	Energy Consumption :	0 W	'n						
etwork	Primary Input				Seco	ondary input			
IPv6	Preference :	۲	Switch		Prefe	erence :		Switch	
802.1X	Stage :	onli	ne		Stag	e:		online	
te & Time	Circuits								
Local	Fuse Status V	oltage Frequency	Load Amp.	Peak Amp.	Appar	ent Power	Active Power	Power Factor	Energy Consumptio
Domain/LDAP ervice	Normal 2	201.7 V 50.0 Hz	🖌 0 mA	💋 0 mA		0.00 VA	0.00 W	1.00	Z 0 W
Web Portal	Outlets								
SNMP Agent	Bulk Action : No Action	~							
otification	Label Name	Powe	r Status F	ower On Delay	Load Amp.	Peak Amp.	Apparent Power	Active Power	Energy Consumptio
Email	01 Øoutlet_name_0	01	ON ON	🚺 1 sec	Am 0	🗹 0 mA	0.00 VA	0.00 W	Z o v
sintenance	02 Øoutlet_name_0	02	OFF	Z 1 sec	🖌 0 mA	🖌 0 mA	0.00 VA	0.00 W	Z o v
Infomation	03 Øoutlet_name_0	03	COFF	🚺 1 sec	M 0 mA	💋 0 mA	0.00 VA	0.00 W	Zow
Firmware	04 Coutlet_name_0	04	OFF	🗹 1 sec	🗹 0 mA	🗹 0 mA	0.00 VA	0.00 W	Z 0 V
Event Log	05 Coutlet_name_0	05		🗹 1 sec	🗹 0 mA	🗹 0 mA	0.00 VA	0.00 W	Z 0 W
	06 Øoutlet_name_0	06		Z 1 sec	🖌 0 mA	💋 0 mA	0.00 VA	0.00 W	Zow
	07 Øoutlet_name_0	07		🚺 1 sec	🖌 0 mA	🖌 0 mA	0.00 VA	0.00 W	Zow
	08 / outlet_name_0	08	ON	Z 1 sec	M 0 mA	🗹 0 mA	0.00 VA	0.00 W	Z o w
	09 Zoutlet_name_0	09		Z 1 sec	M 0 mA	🗹 0 mA	0.00 VA	0.00 W	Z 0 W
	10 Zoutlet_name_1	10		Z 1 sec	M 0 mA	🖌 0 mA	0.00 VA	0.00 W	2 0 W
	11 Zoutlet_name_1	11		1 sec	🖌 0 mA	🗹 0 mA	0.00 VA	0.00 W	Z o w
	12 Coutlet name	10	C. ON	C 1 000		C20 m4	0.00 \/A	0.0014/	C. O.V.

In the Overview page, you can

- View the iATS model, input rating and maximum current output
- View the aggregated current & energy consumption of the iATS -
- View the selected input preference of the power source
- View the circuit's voltage, current loading, peak amp, apparent power, active power, power factor, energy consumption and the circuit breaker state.
- View the outlet name
- View the outlet power status & power on delay setting (Outlet Switched Model only)
- View the outlet's current loading, peak amp, apparent power, active power & energy consumption. (Outlet Measurement Model only)

Device	Model :	ATS-H12UK-16A-B_EN			Input Rating : 16			
Rack Power	Name :	default_ats_name			Output : 16A max.			
Overview	Location :	default_ats_loc.		Firmw	are :		ATS_B01_20241025	
System	Energy Consumption :	0 Wh						
Network	Primary Input			Sec	ondary Input			
• IPv6	Preference :	Switch		Pref	erence :		Switch	
• 802.1X	Stage :	online		Stag	le :		online	
Date & Time	Circuits							
Local	Fuse Status Voltage	Frequency Load Amp.	Peak Amp.	Appar	ent Power	Active Power	Power Factor	Energy Consumption
Domain/LDAP	Normal 201.7 V	50.0 Hz 🚺 0 mA	💋 0 mA		0.00 VA	0.00 W	1.00	Z 0 Wh
Web Portal	Outlets							
SNMP Agent								
Notification	Bulk Action : No Action V							
Email		Power Status	Power On Delay	Load Amp.	Peak Amp.	Apparent Power	Active Power	Energy Consumption
SNMP Trap	01 outlet_name_01	ON	I sec	O mA	Ø mA	0.00 VA	0.00 W	Ø Wh
Maintenance	02 Soutlet_name_02		Z1 sec	0 mA	🗹 0 mA	0.00 VA	0.00 W	🖉 0 Wh
Infomation	03 🖉 outlet_name_03	OFF	🗹 1 sec	🖌 0 mA	🗹 0 mA	0.00 VA	0.00 W	🗹 0 Wh
Firmware	04 🖉 outlet_name_04		Z 1 sec	🗹 0 mA	🗹 0 mA	0.00 VA	0.00 W	🗹 0 Wh
 Event Log 	05 Øoutlet_name_05	N ON	Z 1 sec	🗹 0 mA	🗹 0 mA	0.00 VA	0.00 W	🗹 0 Wh
	06 Soutlet_name_06	N ON	I sec	🖌 0 mA	💋 0 mA	0.00 VA	0.00 W	🗹 0 Wh
	07 🗹 outlet_name_07	I ON	🗹 1 sec	🖌 0 mA	🖊 0 mA	0.00 VA	0.00 W	🗹 0 Wh
	08 Soutlet_name_08	I ON	🗹 1 sec	🗹 0 mA	🗹 0 mA	0.00 VA	0.00 W	🗹 0 Wh
	09 / outlet_name_09	ON	🗹 1 sec	🗹 0 mA	🗹 0 mA	0.00 VA	0.00 W	🗹 0 Wh
	10 / outlet_name_10		I sec	🗹 0 mA	🖌 0 mA	0.00 VA	0.00 W	🗾 0 Wh
	11 / outlet_name_11	ON ON	I sec	🖌 0 mA	💋 0 mA	0.00 VA	0.00 W	💋 0 Wh
	12 Soutlet_name_12	I ON	🗹 1 sec	🖌 0 mA	💋 0 mA	0.00 VA	0.00 W	🗹 0 Wh

To modify ATS name,

- Click " " next to the Name.
- -
- Input the new ATS name and click " Apply "

	ATS Name
New Name	default_ats_name
	Cancel Apply

To modify the ATS location,

- Click " 🗹 " next to the Location.
- Input the new ATS location and click " **Apply** "

r	ATS Location	
New Location	default_ats_loc.	
	Cancel Apply	>.

To change the input preference,

- Click *** Switch** * to change the input preference selection. In this illustration, change the input preference from Primary to Secondary.

Primary Input Second	econdary Input
Preference : Switch Prefer	reference : O Switch
Stage : Online Stage	tage : online

In the circuit section, you can change the alarm amp., rising alert amp. & low alert amp. of the ATS circuit, reset circuit peak amp & circuit energy consumption to zero.

Circuits								
Fuse Status	Voltage	Frequency	Load Amp.	Peak Amp.	Apparent Power	Active Power	Power Factor	Energy Consumption
Normal	204.7 V	50.0 Hz	🗹 0 mA	🗹 0 mA	0.00 VA	0.00 W	1.00	🗹 0 Wh

To change the circuit alarm amp, rising alert amp & low alert amp,

- Click " ^C" below Load Amp.
- Input the new alarm amp., rising alert amp., low alert amp. & click " **Apply** "

Cir	rcuit A	
Alarm	12.8	А
Rising Alert	0	А
Low Alert	0	А
Cance	el Apply	\supset

To reset the circuit peak amp to zero,

- Click " 🖉 " below Peak Amp. & click " Apply "

Circuit A
Are you sure to reset peak current?
Cancel Apply

To reset circuit cumulative energy to zero,

- Click " 🗹 " below Energy Consumption & click " Apply "

Circuit A	4
Are you sure to reset cummulative energy?	
Cancel Apply	

In outlet section, you can change outlet name, outlet power on delay, outlet alarm amp. / rising alert amp. / low alert amp, switch ON / OFF individual or multiple outlet(s), reset outlet peak amp. & outlet energy consumption to zero.

Outlets								
Bulk Ac	tion : No Action 🗸							
Label	Name	Power Status	Power On Delay	Load Amp.	Peak Amp.	Apparent Power	Active Power	Energy Consumption
01	🖌 outlet_name_01	ON	🗹 1 sec	🖌 0 mA	🗹 0 mA	0.00 VA	0.00 W	🗹 0 Wh
02	outlet_name_02	N	🗹 1 sec	🖌 0 mA	🗹 0 mA	0.00 VA	0.00 W	🗹 0 Wh
03	🖌 outlet_name_03	ON	🗹 1 sec	🖌 0 mA	🗹 0 mA	0.00 VA	0.00 W	🗹 0 Wh
04	outlet_name_04	ON	🗹 1 sec	🖌 0 mA	🗹 0 mA	0.00 VA	0.00 W	🗹 0 Wh
05	🖌 outlet_name_05	M ON	🗹 1 sec	🖌 0 mA	🗹 0 mA	0.00 VA	0.00 W	🗹 0 Wh
06	outlet_name_06	N	🗹 1 sec	🖌 0 mA	🗹 0 mA	0.00 VA	0.00 W	🗹 0 Wh
07	outlet_name_07	ON	🗹 1 sec	🖌 0 mA	🗹 0 mA	0.00 VA	0.00 W	🗹 0 Wh
08	🖌 outlet_name_08	ON	🗹 1 sec	🖌 0 mA	🗹 0 mA	0.00 VA	0.00 W	🗹 0 Wh
09	🖌 outlet_name_09	M ON	🗹 1 sec	🖌 0 mA	🗹 0 mA	0.00 VA	0.00 W	🗹 0 Wh
10	Coutlet_name_10	N	🗹 1 sec	🖌 0 mA	🗹 0 mA	0.00 VA	0.00 W	🗹 0 Wh
11	Coutlet_name_11	N	Z 1 sec	🖌 0 mA	🗹 0 mA	0.00 VA	0.00 W	🗹 0 Wh
12	Soutlet_name_12	ON	🗹 1 sec	🖌 0 mA	🗹 0 mA	0.00 VA	0.00 W	🗹 0 Wh

To change outlet,

- Click " rext outlet name
 Input the new outlet name & click " Apply "

	Outlet 01
New Name	outlet_name_01
	Cancel Apply

To switch ON / OFF individual outlet (Outlet Switched Model only),

- Click " ^I" below Power Status
 Select On / Off from the pull down menu & click " Apply "

Ou	tlet 01
Switch	Off 🗸
Cancel	Apply

To switch ON / OFF multiple outlets (Outlet Switched Model only),

- Select Switch ON / OFF from the pull down menu of Bulk Action

Bulk Ac	tion :	No Action	~
Label	Nan	No Action	
01	Z	Switch ON	
02		Switch OFF	
03	-	outlet name	03

- Select the outlets you want to switch ON / OFF & Click " Apply ". In this illustration, I switch OFF outlet 1 ~ 3.

Bulk Action	Switch OFF Apply	
Label	Name	Power Status
01	outlet_name_01	ON
02	outlet_name_02	ON
0 3	outlet_name_03	ON

To change the outlet alarm amp, rising alert amp & low alert amp (Outlet Measurement Model only),

- Click " 🗹 " below Load Amp.
- Input the new alarm amp., rising alert amp., low alert amp. & click " Apply "

Ou	itlet 01	
Alarm	5 \$	А
Rising Alert	0	А
Low Alert	0	А
Cance	el Apply	\supset

To reset the outlet peak amp to zero (Outlet Measurement Model only),

Clic	k " 🗹 " below Peak Amp. & click " Apply "
	Outlet 01
	Are you sure to reset peak current?
a	Cancel Apply

To reset outlet cumulative energy to zero (Outlet Measurement Model only),

- Click " 🖉 " below Energy Consumption & click " Apply "

Outlet 01
Are you sure to reset cummulative energy?
Cancel Apply

< Part 4 > System

< 4.1 > Network

Network allows you to configure the IPv4, IPv6 and 802.1x authentication setting.

IPv4 network setting

i. Click Network and you can see the following image displays. You can change the IPv4 setting. The default IP4 assignment and DNS assignment is DHCP.

Vetwork		
LAN		
IP assignment	Automatic (DHCP) 🗸	
DNS assignment	Automatic (DHCP) 🗸	
	Apply	Cancel

 ii. If your network does not support DHCP, you can change the IP assignment to "Manual ". Then input the IPv4 address & subnet prefix in "Address " and the Gateway to "Default Gateway ". You can input "Preferred DNS " and "Alternate DNS " or let them empty, it depends on your network requirement. Then click "Apply ".

LAN		
P assignment	Manual	~
ddress	192.168.0.1/2	4
Default Gateway	192.168.0.254	1
NS assignment	Manual	~
referred DNS	8.8.8.8	
Alternate DNS	192.168.1.1	

< 4.1 > Network

IPv6 network setting

i. If your network supports IPv6, go to Network > IPv6 to configure your IPv6 network setting. Default IPv6 setting is " **Disable** "

Network		
IPv6	Disable 🗸	
	Apply	Cancel

ii. Select " Enable " and you can see the following image displays. If your IPv6 network supports DHCP, click " Apply ".

Network	
IPv6	Enable 🗸
LAN	
IP assignment	Automatic (DHCP) 🗸
DNS assignment	Automatic (DHCP) 🗸
(Apply Cancel

iii. If your network does not support DHCP, you can change the IP assignment to " Manual ". Then input the IPv6 address & subnet prefix in "Address" and the Gateway to " Default Gateway ". You can input " Preferred DNS " and " Alternate DNS " or let them empty, it depends on your network requirement. Then click " Apply ".

Network	
IPv6	Enable 🗸
LAN	
IP assignment	Manual 🗸
Address	::ffff.c0a8:1/64
Default Gateway	fe80::220a:dff:fe63:528/64
DNS assignment	Manual 🗸
Preferred DNS	fe80::220a:dff:fe63:520/64
Alternate DNS	fe80::220a:dff:fe63:521/64
	Apply Cancel

< 4.1 > Network

802.1x authentication

i. Go to Network > 802.1X and you can see the following image displays.

Network		
LAN		
IEEE 802.1X	Disable 🗸	
	Apply Cancel	Reset

ii. Select "Enable " and you can select EAP authentication as "PEAP-MSCHAPv2 " or " EAP-TLS ".
 If you select "PEAP-MSCHAPv2 ". Input the " Identity ", " Password " & CA certificate in .PEM format if you tick " Verify CA certificate ". Then click " Apply ".

Vetwork		
LAN		
IEEE 802.1X	Enable 🗸	
EAP	PEAP-MSCHAPv2 V	
Identity	simon.chan	
Password	•••••	
Verify CA certifcate		
CA certificate	Choose File No file chosen	
	Apply Cancel	Reset

iii. If you select " **EAP-TLS** ", input Identity, Client Certificate, Private Key, Private Key Password & CA certificate if you tick " **Verify CA certificate** ". Then click " **Apply** ".

Network		
LAN		
IEEE 802.1X	Enable 🗸	
EAP	EAP-TLS 🗸	
Identity	simon.chan	
Client Certificate	Choose File No file chosen	
Private Key	Choose File No file chosen	
Private Key Password	•••••	
Verify CA certifcate		
CA certificate	Choose File No file chosen	
	Apply Cancel	Reset

< 4.2 > Date & Time

You can set the internal clock on the iATS manually or link to a Network Time Protocol (NTP) server.

To set the date & time :

- i. Go to System > Date & Time
- Click the Time zone to select your time zone from the list. ii.
- iii. Select the method for setting the date & time

- Set Date & Time Manually : Select " **Manually** " from the time setting field
- · Input the date
- · Select the time from the list
- · Click " Apply "

Date & Time		
System Time	2020-01-01 04:12:01	
Time zone	GMT+00:00 🗸	
Time setting	Manually	~
Date	2020-01-01	
Time	04 🗸 : 12 🗸 : 01	~
	Apply	Cancel

Using the NTP server:

- Select "Synchronize with NTP server " from Time setting field
- Input the NTP server to the NTP server field
- Click " Apply "

ate & Time	
System Time	2020-01-01 04:12:01
Time zone	GMT+00:00 🗸
Time setting	Synchronize with NTP server \checkmark
NTP server	time.google.com

< 4.3 > Authentication

For security purposes, users attempting to login to the iATS must be authenticated. The iATS supports one of the following authentication mechanisms.

- Local user on the iATS
- Lightweight Directory Access Protocol (LDAP)

By default, the iATS is configured for local authentication. If you prefer external authentication, you must provide the iATS with information about the external Authentication and Authorization (AA) server.

Authentication by local user

- i. Go to System > Authentication > Local
- ii. Input the new login name in "Login name " field
- iii. Input new password in "**Password** " field.
- (You can leave the password unchanged if you just want to change the login name.)
- iv. Input the new password in " **Confirm password** " field for verification
- v. Click " Apply "

ogin	
Login name	0000000
Password	
Confirm Password	
	Apply Cancel

Authentication by LDAP (MS Active Directory)

- i. Go to System > Authentication > Domain/LDAP
- ii. Select "Enable " from LDAP authentication field
- iii. Select " MS Active Directory " from the Type field.
- iv. Input the IP address or hostname in the Server field
- v. Input the port no. in the port field
- vi. Select the secure connection type (StartTLS / TLS / none) from secure connection field
- vii. Select Enable / Disable from Anonymous bind field. Default is "**Disable**". If you select Enable, you need NOT to input Bind DN & Bind Password field.
- viii. Input the Bind DN in the Bind DN field.
- ix. Input the Bind password in the Bind password field.
- x. Input user search DN in the User Search DN field.
- xi. Input the name of the Active Directory Domain in the Domain field.
- xii. Input the criteria for finding user objects within the directory tree in the Search filter field.

xiii. Click " Apply "

Enable 🗸	
MS Active Directory 🗸	
192.168.1.60	
389	
StartTLS 🗸	
Disable 🗸	
cn=admin,cn=users,dc=austin-hug	
leave unchanged	
cn=users,dc=austin-hughes,dc=dc	
austin-hughes.dc	
sAMAccountName	
	Enable ▼ MS Active Directory ▼ 192.168.1.60 389 StartTLS ▼ Disable ▼ cn=admin,cn=users,dc=austin-hug leave unchanged cn=users,dc=austin-hughes,dc=dc austin-hughes.dc sAMAccountName

< 4.3 > Authentication

Authentication by LDAP (OpenLDAP)

- i. Go to System > Authentication > Domain/LDAP
- ii. Select " **Enable** " from LDAP authentication field
- iii. Select " **OpenLDAP** " from the Type field.
- iv. Input the IP address or hostname in the Server field
- v. Input the port no. in the port field
- vi. Select the secure connection type (StartTLS / TLS / none) from secure connection field
- vii. Select Enable / Disable from Anonymous bind field. Default is "**Disable**". If you select Enable, you need not to input Bind DN & Bind Password field.
- viii. Input the Bind DN in the Bind DN field.
- ix. Input the Bind password in the Bind password field.
- x. Input user search DN in the User Search DN field.
- xi. Input the login attribute in the Login Attribute field.
- xii. Input the criteria for finding user objects within the directory tree in the Search filter field.
- xiii. Click " Apply "

DAP Authentication	Enable 🗸	
Type		
Туре		
Server	192.168.1.60	
Port	389	
Secure connection	StartTLS V	
Anonymous bind	Disable 🗸	
Bind DN	uid=admin,cn=users,dc=rndserver,	
Bind password	leave unchanged	
User Search DN	cn=users,dc=rndserver,dc=austin-t	
Domain	austin-hughes.dc	
Login attribute	uid	
Search filter	displayname	
	Login Test	

< 4.4 > Service

In Service, you can change the WEB portal setting to access the WEB interface. You can also enable or disable SNMP communication between an SNMP manager and the iATS.

Web Portal

The default port number of HTTP is 80 and Force HTTPS redirect is enabled. The default port number of HTTPS is 443. To change the setting :

- i. Go to Service > Web Portal
- ii. Input the new port for HTTP
- iii. Disable or enable Force HTTPS redirect
- iv. Input the new port for HTTPS

Web Portal					
НТТР					
Port	80				
Force HTTPS redirect	~				
HTTPS					
Port	443				
Upload custom key & certifcate					
Certificate Validity		Issued To		Issued By	
Not before	Nov 29 07:31:59 2023 GMT	Common Name	Default Certificate	Common Name	Default Certificate
Not after	Nov 28 07:31:59 2033 GMT	Organization	null	Organization	null
Key length	2048 bit	Organization Unit	null	Organization Unit	null
	Apply Cancel				

v. If you check Upload custom key & certificate, you can see the following similar image displays.

Web Portal					
нттр					
Port	80				
Force HTTPS redirect					
HTTPS					
Port	443				
Upload custom key & certifcate					
Кеу	Choose File No file chosen				
Certificate	Choose File No file chosen				
Certificate Validity		Issued To		Issued By	
Not before	Nov 29 07:31:59 2023 GMT	Common Name	Default Certificate	Common Name	Default Certificate
Not after	Nov 28 07:31:59 2033 GMT	Organization	null	Organization	null
Key length	2048 bit	Organization Unit	null	Organization Unit	null
(Apply Cancel				

- vi. Import the Key in .PEM format
- vii. Import the Certificate in .PEM format
- viii. Click " Apply "

< 4.4 > Service

SNMP Agent

You can monitor the iATS via SNMPv1/2 or v3 (Simple Network Management Protocol) by enabling the SNMP agent. To enable the SNMP agent, please follow the steps below.

- i. Click the link below to get the MIB file https://www.austin-hughes.com/support/software/infrapower/B-Series-iATS-MIB
- ii. Go to Service > SNMP Agent

Agent	Disable 🗸
Port	161
sysName	default_name
sysLocation	default_location
sysContact	human.being <nobody@t< td=""></nobody@t<>

 iii. Enable SNMP Agent. Input sysName (default : default_name), sysLocation (default : default_location), sysContact (default : human.being<nobody@but.you>)

NMP Agent	
Agent	Enable 🗸
ort	161
ysName	default_name
ysLocation	default_location
ysContact	human.being <nobody@b< td=""></nobody@b<>
NMPv1/v2c Community	0
MPv3 User	0
	Apply Cancel
hanges updated.	

- iv. If you enable v1/v2c, click " " next to SNMPv1/v2c Community.
- v. Input the value of Community.
- vi. Select Read Only or Read & Write from Type field. Then click " Apply "

f you have been edit	ing something, your changes will be lost.
Community	private
Туре	Read & Write 🗸

- vii. If you enable SNMPv3, click " 🔮 " next to SNMPv3 User.
- viii. Input the user name in User field
- ix. Select Read Only or Read & Write from Type field
- x. Select None / Authentication / Privacy from Security Level field

< 4.4 > Service

xi. If you select None, then click " Apply ".

n you have been culling	Somedning, your enanges	Will be los
User	user-01	
Туре	Read Only	~
Security Level	None	~
Authentication	MD5	~
Auth Password		
Privacy	DES	~
Privacy Password		

- xii. If you select " **Authentication** " from Security Level field, select MD5/SHA/SHA-224/SHA-256/SHA-384/SHA-512 from Authentication field
- xiii. Input the password in Auth Password field (Length : 8 ~ 32 char.). Then click " Apply "

	Add User	
f you have been editin	g something, your change	s will be lo
User	user-01	
Туре	Read Only	~
Security Level	Authentication	~
Authentication	MD5	~
Auth Password		
Privacy	DES	~
Privacy Password		
	Cancel	Apply

- xiv. If you select " **Privacy** " from Security field, select MD5/SHA/SHA-224/SHA-256/SHA-384/SHA-512 from Authentication field.
- xv. Input the password in Auth Password field (Length : 8 ~ 32 char.).
- xvi. Select DES/AES/AES-128/AES-192/AES-256 from Privacy field
- xvii. Input the password in Privacy Password field (Length : 8 ~ 32 char.). Then click " Apply "

If you have been editing	something, your changes	will be lo
User	user-01	
Туре	Read Only	``
Security Level	Privacy	~
Authentication	MD5	~
Auth Password		
Privacy	DES	~
Privacy Password		

< 4.5 > Notification

In Notification, you can enable the alarm email server and SNMP trap. When event or alert is triggered, the iATS will send out an email and SNMP trap to a specific user(s).

Email

- i. Go to Notification > Email
- ii. Select Enable from Notification field. Default is Disable
- iii. Input the IP address or domain name of the SMTP server
- iv. Input the SMTP port. Default is 25
- v. Select Disable / Enable from Authentication field
- vi. If select Enable from Authentication field, input sender email address in Username field and password in Password field.
- vii. Select None/StartTLS from Secure Connection field
- viii. Input the sender email address in Sender email field
- ix. Input the name in the Sender name field
- x. Input the receiver's email address in the Recipient field. If more than one recipient, please use semi-colon or comma to separate each email address.
- xi. Click " Apply ".

Email	
Email Notification	Enable 🗸
SMTP server	smtp.mail.com
SMTP port	25
Authentication	Disable 🗸
Username	
Password	leave unchanged
Secure connection	None 🗸
Sender email	sender@mail.com
Sender name	sender
Recipient	recipient01@mail.com
	6
	Send Test
	Apply Cancel Reset

< 4.5 > Notification

SNMP Trap

- To receive event or alert notification via SNMP, please configure the SNMP trap setting.
- i. Go to Notification > SNMP Trap
- ii. Select Enable from SNMP Trap Notification field. Default is Disable.
- iii. Select Trap/Inform from Type field.
- iv. If you select Inform from Type field. Please input the time interval in seconds after which a new inform communication is resent if the first is not received in the Timeout field. Input the number of time you want to resend the inform communication if it fails in Retries field.

MP Trap Notification	Enable 🗸
pe	Trap 🗸
meout	1
etries	3
eceivers	•
	Apply Ca

v. Click " 🔮 " next to the Receivers, you can see the following similar image displays.

If you have been editi	ng something, your changes will be lo
Host	192.168.0.100
Port	162
Community	private

- vi. Input the IP address in the Host field. This is the address to which notifications are sent by the SNMP agent.
- vii. Input the port number used to access the host in the Port field.
- viii. Input the value of community in Community field used to access the iATS
- ix. Click " Apply "
- x. Repeat v to ix to add more receivers.

	Add Receiver
lf you have been editi	ing something, your changes will be los
Host	192.168.0.100
Port	162
Community	private
	Cancel Apply

< 4.6 > Maintenance

In Maintenance, you can view the system information, do the firmware update and view the event log.

Information

i. Go to Maintenance > Information, you can see the following similar image displays.

System Information	
Model	IATS
Firmware version	1.5.9
Hardware revison	1.0
Serial Number	20625102501188-1300A-P001
Up time	1 minute
	Reboot Reset to Factory Default
Network Information	
LAN	
MAC address	42:D1:C3:9D:6D:6F
Connection	1000 Mb/s, full duplex, auto-negotiation on
Туре	DHCP
IP address	192.168.0.1/24
Gateway	192.168.0.254

- ii. You can view the system and network information.
- iii. Click " **Reboot** " to reboot the iATS
- iv. Click " Reset to Factory Default " to reset the iATS to factory default.

Firmware

To perform the firmware update of the iATS

- i. Download the appropriate firmware file in .img extension from the link below https://www.austin-hughes.com/support/software/infrapower/B-Series-iATS-Firmware
- ii. Go to Maintenance > Firmware
- iii. Click " Choose File " to select firmware file to update

Firmware	
	This may take some minutes. Please do NOT power off the device while the update is in progress!
	After a successful update, the device will restart automatically.
	Choose File No file chosen
	Update

iv. Once the firmware file is chosen, click " Open "

Name	Date modified	Type Si
1.5.4	12/8/2024 3:19 pm	Disc Image File
51		
	 ✓ All Files 	~
	Ор	oen Cancel

< 4.6 > Maintenance

v. Click " **Update** " to start the firmware update process. Once the firmware update completes, the WEBUI goes back to the login page.

This may take some minutes. Please do NOT power off the device while the update is in progress!
After a successful update, the device will restart automatically.
Browse 1.5.4.img

Event Log

In < Event Log >, you can view the latest 1000 events or alerts from the iATS with severity level

ogs			
Date	Time (UTC+08:00)	Severity	Message
2024-11-01	13:56:53	Info	ATS Outlet 03 change power up sequence delay time to 1s is successful.
2024-11-01	13:56:47	Info	ATS Outlet 04 change current low alert threshold to 0.000A is successful.
2024-11-01	13:56:46	Info	ATS Outlet 04 current (0.000A) resumed normal.
2024-11-01	13:56:41	Info	ATS Outlet 02 change current low alert threshold to 0.000A is successful.
2024-11-01	13:56:41	Info	ATS Outlet 02 current (0.000A) resumed normal.
2024-11-01	13:56:34	Info	ATS Circuit A change current low alert threshold to 0.000A is successful.
2024-11-01	13:56:34	Info	ATS Circuit A current (0.000A) resumed normal.
2024-11-01	13:56:33	Info	ATS Circuit A change current rising alert threshold to 0.000A is successful.
2024-11-01	13:56:24	Info	ATS change name to default_ats_name is successful.

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